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		APPLICANT: Timothy M. Swager et al.	
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Sheet	1	of	3

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U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
[Handwritten mark]	A1	4,356,429	A	Tang	10-26-1982
	A2	4,687,732	A	Ward et al.	08-18-1987
	A3	4,927,768	A	Coughlin et al.	05-22-1990
	A4	4,946,890	A	Meador	08-07-1990
	A5	4,992,302	A	Lindmayer	02-12-1991
	A6	5,155,149	A	Atwater et al.	10-13-1992
	A7	5,194,393	A	Hugl et al.	03-16-1993
	A8	5,236,808	A	Smothers	08-17-1993
	A9	5,244,813	A	Walt et al.	09-14-1993
	A10	5,254,633	A	Han et al.	10-19-1993
	A11	5,364,797	A	Olson et al.	11-15-1994
	A12	5,414,069	A	Cumming et al.	05-09-1995
	A13	5,451,683	A	Barrett et al.	09-19-1995
	A14	5,511,547	A	Markle et al.	04-30-1996
	A15	5,512,490	A	Walt et al.	04-30-1996
	A16	5,532,129	A	Heller	07-02-1996
	A17	5,540,999	A	Yamamoto et al.	07-30-1996
	A18	5,546,889	A	Wakita et al.	08-20-1996
	A19	5,554,747	A	Sharma et al.	09-10-1996
	A20	5,556,524	A	Albers	09-17-1996
	A21	5,563,056	A	Swan et al.	10-08-1996
	A22	5,565,322	A	Heller	10-15-1996
	A23	5,580,527	A	Bell et al.	12-03-1996
	A24	5,585,646	A	Kossovsky et al.	12-17-1996
	A25	5,591,787	A	Schlennert et al.	01-07-1997
	A26	5,597,890	A	Jenekhe	01-28-1997
	A27	5,607,864	A	Ricchiero et al.	03-04-1997
	A28	5,679,773	A	Holmes	10-21-1997
	A29	5,700,696	A	Chandross et al.	12-23-1997
	A30	5,705,348	A	Meade et al.	01-06-1998
	A31	5,709,994	A	Pease et al.	01-20-1998
	A32	5,710,197	A	Fischer et al.	01-20-1998
	A33	5,723,218	A	Haugland et al.	03-03-1998
	A34	5,869,592	A	Gagné et al.	02-09-1999
	A35	6,259,277	B1	Tour et al.	07-10-2001



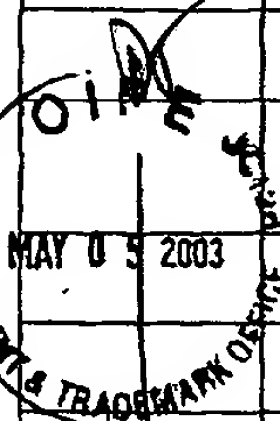
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FOREIGN PATENT DOCUMENTS


Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
B1	B1	DE	197 44 792	A1	Hoechst AG	04-15-1999	N
	B2	DE	198 06 037	A1	Aventis Research & Technologies GmbH	08-18-1999	N
	B3	EP	0 442 123	A1	Neste Oy	08-21-1991	
	B4	EP	1 011 154	A1	Sony International (Europe) GmbH	06-21-2000	
	B5	JP	05-113286		Yamamoto	11-22-1994	
	B6	WO	89/00593	A1	Memtec Limited	01-26-1989	
	B7	WO	95/16681	A1	Trustees of the University of Pennsylvania	06-22-1995	
	B8	WO	99/57222	A1	Massachusetts Institute of Technology	11-11-1999	
	B9	WO	02/16463	A2	Massachusetts Institute of Technology	02-28-2002	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
B1	C1	CHEN L. et al., "Tuning the properties of conjugated polyelectrolytes through surfactant complexation," <i>J. Am. Chem. Soc.</i> , vol. 122, no. 38, pp. 9302-9303, 2000	
	C2	CHEN L. et al., "Highly sensitive biological and chemical sensors based on reversible fluorescence quenching in a conjugated polymer," <i>PNAS</i> , vol. 96, no. 22, pp. 12287-12292, 1999	
	C3	FU D.-K. et al., "Alternating poly(pyridyvinylene-phenylenevinylene)s: Synthesis and solid state organizations," <i>Tetrahedron</i> , vol. 53, no. 45, pp. 15487-15494, 1997	
	C4	GAYLORD B.S. et al., "Water-soluble conjugated oligomers: Effect of chain length and aggregation on photoluminescence-quenching efficiencies," <i>J. Am. Chem. Soc.</i> , vol. 123, no. 26, pp. 6417-6418, 2001	
	C5	GAYLORD et al., "DNA detection using water-soluble conjugated polymers and peptide nucleic acid probes," <i>Proc Natl Acad Sci USA</i> , August 20, 2002, Vol. 99, No. 17, pp. 10954-10957	
	C6	HALKYARD C.E. et al., "Evidence of aggregate formation for 2,5-dialkylpoly(p-phenyleneethynylene)s in solution and thin films," <i>Macromolecules</i> , vol. 31, no. 25, pp. 8655-8659, 1998	
	C7	HARRISON B.S. et al., "Amplified fluorescence quenching in a poly(p-phenylene)-based cationic polyelectrolyte," <i>J. Am. Chem. Soc.</i> , vol. 122, no. 35, pp. 8561-8562, 2000	
	C8	HEEGER P.S. & Heeger, A.J. "Making sense of polymer-based biosensors," <i>Proc. Natl Acad Sci USA</i> , vol. 96, no. 22, pp. 12219-12221, 1999	
	C9	HÖGER S. et al., "Synthesis, aggregation, and adsorption phenomena of shape-persistent macrocycles with extraannular polyalkyl substituents," <i>J. Am. Chem. Soc.</i> , vol. 123, no. 24, pp. 5651-5659, 2001	
	C10	JONES R.M. et al., "Superquenching and its applications in j-aggregated cyanine polymers," <i>Langmuir</i> , vol. 17, no. 9, pp. 2568-2571, 2001	
	C11	KIM J. et al., "Nanoscale fibrils and grids: Aggregated structures from rigid-rod conjugated polymers," <i>Macromolecules</i> , vol. 32, no. 5, pp. 1500-1507, 1999	
	C12	KIM et al., "Ultrafast Energy-Transfer Dynamics between Block Copolymer and π -Conjugated Polymer Chains in Blended Polymeric Systems," <i>Chemistry of Materials</i> , Vol. 13(8), pp. 266-2674	
	C13	KRAFT et al., "Electroluminescent Conjugated Polymers - Seeing Polymers in a New Light," <i>Angew. Chem. Int. Ed.</i> 1998, 37, 402-428	
	C14	KUSHON et al., "Detection of DNA Hybridization via Fluorescent Polymer Superquenching," <i>Langmuir - The ACS Journal of Surfaces and Colloids</i> , October 1, 2002, Volume 18, Number 20	
	C15	LEVITSKY I.A. et al., "Energy migration in a poly(phenylene ethynylene): Determination of interpolymer transport in anisotropic langmuir-blodgett films," <i>J. Am. Chem. Soc.</i> , vol. 121, no. 7, pp. 1466-1472, 1999	
	C16	LI M. et al., "Novel surfactant-free stable colloidal nanoparticles made of randomly carboxylated polystyrene ionomers," <i>Macromolecules</i> , vol. 30, no. 7, pp. 2201-2203, 1997	
	C17	LUO L. & Eisenberg, A. "Thermodynamic stabilization mechanism of block copolymer vesicles," <i>J. Am. Chem. Soc.</i> , vol. 123, no. 5, pp. 1012-1013, 2001	
	C18	MIAO et al., "Fluorescence sensory polymers containing rigid non-planar aromatic scaffolds", Papers presented at the Meeting-American Chemical Society, Division of Polymer Chemistry, vol. 39, no. 2, pp. 1081-1082, August 1998	
	C19	NORVEZ et al., "Epitaxygens: mesomorphic properties of triptycene derivatives", <i>Liquid Crystals</i> , vol. 14, no. 5, pp. 1389-1395, 1993	
	C20	PENG et al., "Efficient Light Harvesting by Sequential Energy Transfer across Aggregates in Polymers of Finite Conjugational Segments with Short Aliphatic Linkages," <i>J. Am. Chem. Soc.</i> , 2001, Vol. 123, pp. 11388-11397	

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
	C21	PLACE I. et al., "Stabilization of the aggregation of cyanine dyes at the molecular and nanoscopic level," <i>Langmuir</i> , vol. 16, no. 23, pp. 9042-9048, 2000	
	C22	PSCHIRER N.G. & Bunz, U.H.F. "Poly(fluorenyleneethynylene)s by alkyne metathesis: Optical properties and aggregation behavior," <i>Macromolecules</i> , vol. 33, no. 11, pp. 3961-3963, 2000	
	C23	SNOW A.W. et al., "Synthesis and evaluation of hexafluorodimethylcarbinol functionalized polymers as microsensor coatings," <i>J. App. Poly. Sci.</i> , vol. 43, pp. 1659-1671, 1991	
	C24	SWAGER T.M. et al., "Fluorescence studies of poly(<i>p</i> -phenyleneethynylene)s: The effect of anthracene substitution," <i>J. Phys. Chem.</i> , vol. 99, no. 14, pp. 4886-4893, 1995	
	C25	SWAGER, T. M. "The molecular wire approach to sensory signal amplification," <i>Acc. Chem. Res.</i> , vol. 31, no. 5, pp. 201-207, 1998	
	C26	TAN et al., "Photophysics, aggregation and amplified quenching of a water-soluble poly(phenylene ethynylene)," <i>Chem. Commun.</i> , 2002, pp. 446-447	
	C27	VAN HOUTEN K.A. et al., "Rapid luminescent detection of phosphate esters in solution and the gas phase using (dppe)Pt{S ₂ C ₂ (2-pyridyl)(CH ₂ CH ₂ OH)}," <i>J. Am. Chem. Soc.</i> , vol. 120, no. 47, pp. 12359-12360, 1998	
	C28	WALTERS et al., "Photophysical Consequences of Conformation and Aggregation in Dilute Solutions of π -Conjugated Oligomers," <i>Langmuir</i> , 1999, Vol. 15, pp. 5676-5680	
	C29	WEDER C. & M. S. Wrighton, "Efficient solid-state photoluminescence in new poly(2,5-dialkoxy- <i>p</i> -phenyleneethynylene)s," <i>Macromolecules</i> , vol. 29, no. 15, pp. 5157-5165, 1996	
	C30	WU C. et al., "Novel nanoparticles formed via self-assembly of poly(ethylene glycol- <i>b</i> -sebacic anhydride) and their degradation in water," <i>Macromolecules</i> , vol. 33, no. 24, pp. 9040-9043, 2000	
	C31	YANG et al., "Fluorescent porous polymer films as TNT chemosensors: electronic and structural effects," <i>J. Am. Chem. Soc.</i> , vol. 120, pp. 11864-11873, 1998	
	C32	YANG et al., "Anomalous crystal packing of iptycene secondary diamides leading to novel chain and channel networks," <i>Tetrahedron Letters</i> , vol. 41, no. 41, pp. 7911-7915, October 7, 2000, Elsevier Science Publishers, Amsterdam, NL	
	C33	ZHANG G. et al., "Formation of novel polymeric nanoparticles," <i>Acc. Chem. Res.</i> , vol. 34, no. 3, pp. 249-256, 2001	
	C34	ZHOU Q. & T. M. Swager, "Methodology for enhancing the sensitivity of fluorescent chemosensors: Energy migration in conjugated polymers," <i>J. Am. Chem. Soc.</i> , vol. 117, no. 26, pp. 7017-1018, 1995	
	C35	ZHOU Q. & T.M. Swager, "Fluorescent chemosensors based on energy migration in conjugated polymers: The molecular wire approach to increased sensitivity," <i>J. Am. Chem. Soc.</i> , vol. 117, no. 50, pp. 12593-12602, 1995	

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